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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/882,939 06/15/2001		Chenglin Cui	42390P11654	9489
8791	7590 10/18/2006		EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030			WILDER, PETER C	
			ART UNIT	PAPER NUMBER
			2623	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/882,939	CUI ET AL.		
	Office Action Summary	Examiner	Art Unit		
	•	Peter C. Wilder	2623		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be tiruly apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 9/05/2	<u>2006</u> .			
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.				
3) 🗌	•				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-8,10-27,29 and 30 is/are pending in 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-8,10-27,29 and 30 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to oath or declaration is objected to by the Example.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority u	under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ter No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

DETAILED ACTION

Response to Arguments

Applicant's arguments, see page 7 second paragraph, filed 9/05/2006, with respect to claims 1, 11, and 24 have been fully considered and are persuasive. The previous rejection of the claims has been withdrawn.

Applicant's arguments with respect to claims 19-23 have been considered but are moot in view of the new ground(s) of rejection.

The applicant argues on page 9 that Auyeung fails to teach a silence description frame filer and is thus not obvious.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4-7, 10, 11, 14, 15, 17, 18, 24-27, 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over lyengar et al. (U.S. 6049765) in view of Virtanen (U.S. 6035179).

Referring to claim 1, lyengar teaches, a method comprising, counting an untransmitted frame to determine a count of silence frames (Column 3 lines 1-22);

determining a silence frame that includes the count of silence frames (Column 3 lines 1-22), wherein the silence description frame has a size equivalent to the size of an active frame;

and storing the silence description frame (Column 3 lines 1-22 and Figure 4).

lyengar fails to teach wherein the silence description frame has a size equivalent to the size of an active frame.

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In an analogous art Virtanen teaches wherein the silence description frame has a size equivalent to the size of an active frame (Column 2 lines 16-29).

At the time the invention was made it would have been obvious for one skilled in the art to modify the silence frame counting function/device of lyengar using the same frame size function/device of Virtanen for the purpose of making the system processing simpler since no special frame sizes have to accommodated for.

Referring to claim 2, lyengar teaches the method further comprising: receiving the active frame; and storing the active frame (Column 3 lines 1-23).

Referring to claim 4, lyengar teaches the method further comprising receiving a packet describing comfortable noise (Column 5 lines 50-67).

Referring to claim 5, lyengar teaches wherein said counting an untransmitted frame comprises determining the untransmitted frame represents a silence frame (Column 3 lines 1-23).

Referring to claim 6, Iyengar teaches wherein said counting an untransmitted frame comprises determining a sequence of frames comprises a silence frame (Column 3 lines 1-23).

Referring to claim 7, Iyengar teaches wherein said determining a silence description frame comprises determining a pattern to demarcate the silence description frame (Column 3 lines 1-23).

Regarding claim 10, lyengar teaches wherein said storing the silence description frame comprises storing the silence description frame adjacent to the active frame (Column 3 lines 1-23).

Regarding claim 11, lyengar teaches an apparatus, comprising:

a network interface (Figure 4 teaches real-time speech being input); and

a silence description frame filer coupled to said network interface to determine a count of silence frames (Column 3 lines 1-23); and

a data storage device coupled to said silence description frame filer to store a silence description frame (Figure 4 and Column 3 liens 1-23).

lyengar fails to teach wherein the silence description frame has a size equivalent to the size of an active frame.

In an analogous art Virtanen teaches wherein the silence description frame has a size equivalent to the size of an active frame (Column 2 lines 16-29).

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At the time the invention was made it would have been obvious for one skilled in the art to modify the silence frame counting function/device of lyengar using the same frame size function/device of Virtanen for the purpose of making the system processing simpler since no special frame sizes have to accommodated for.

Referring to claim 14, depending on claim 11, lyengar teaches said silence description frame filer comprises a microprocessor coupled to said data storage device (Figure 4 teaches a DSP (Column 1 line 62-67 and Column 2 lines 1-6) connected to memory 304)

Referring to claim 15, depending on claim 11, lyengar teaches said silence description frame filer comprises a microprocessor to count an untransmitted frame (Column 3 lines 1-23).

Referring to claim 17, depending on claim 11, lyengar teaches said storage device comprises a data storage controller coupled to said silence description frame filer (Figure 4 teaches a storage device and the DSP/processor and Column 3 liens 1-23 teach how silence frames are controlled and stored in the memory).

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Referring to claim 18, depending on claim 11, lyengar teaches said data storage device comprises a memory device coupled to said silence description frame filer (Figure 4 teaches memory coupled to the DSP/filer).

Referring to claim 24, see the rejection of claim 1, and Iyengar teaches in Figure 4 a DSP which is a type of processor and a processor inherently requires computer program to function.

Referring to claim 25, depending on claim 24, see the rejection of claim 2.

Referring to claim 26, depending on claim 24, see the rejection of claim 5.

Referring to claim 27, depending on claim 24, see the rejection of claim 7.

Referring to claim 30, depending on claim 24, see the rejection of claim 10.

Claims 3, 12, 13, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over lyengar et al. (U.S. 6049765) in view of Virtanen (U.S. 6035179) further in view of Judge (U.S. 6718298 B1).

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Referring to claim 3, Iyengar and Virtanen fail to teach the method further comprising decoding a file comprising an active frame and the silence description frame.

In an analogous art Judge teaches decoding a file comprising an active frame and the silence description frame (Column 4 lines 37-63).

At the time the invention was made it would have been obvious for one skilled in the art to modify the combined functions/devices of lyengar and Virtanen using the decoding of active and silence description frames function/device of Judge for the purpose of on playback to provide as output speech signals derived from the stored speech frames and, in dependence upon the stored on or more silence frames, comfort noise from the comfort noise generator for a duration represented by the stored data.

Referring to claim 12, depending on claim 11, see the rejection of claim 3.

Referring to claim 13, depending on claim 11, Iyengar and Virtanen fail to teach wherein said silence description frame filer comprises the microprocessor to determine a silence description frame.

In an analogous art Judge teaches wherein said silence description frame filer comprises the microprocessor to determine a silence description frame (See Fig. 1 Microcontroller 117, Col. 4 lines 9-28).

At the time the invention was made it would have been obvious for one skilled in the art to modify the combined functions/devices of lyengar and Virtanen using the packet switching interface function/device of Judge for the purpose of allowing signals to be communicated over different mediums.

Referring to claim 16, lyengar and Virtanen fail to teach wherein said silence description frame filer comprises a microprocessor to determine the silence description frame.

In an analogous art Judge teaches wherein said silence description frame filer comprises a microprocessor to determine the silence description frame (See Fig. 1 Microcontroller 117, Col. 4 lines 9-28).

At the time the invention was made it would have been obvious for one skilled in the art to modify the combined functions/devices of lyengar and Virtanen using the microprocessor function/device of Judge for the purpose of on playback to provide as output speech signals derived from the stored speech frames and, in dependence upon the stored on or more silence frames, comfort noise from the comfort noise generator for a duration represented by the stored data.

Claims 8 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over lyengar et al. (U.S. 6049765) in view of Virtanen (U.S. 6035179) further in view of Bruhn (U.S. 6347081 B1).

Referring to claim 8, depending on claim 1, lyengar and Virtanen fail to teach wherein said determining a silence description frame comprises determining a frame to decode as an invalid frame.

In an analogous art Bruhn teaches wherein said determining a silence description frame comprises determining a frame to decode as an invalid frame (Column 4 lines 44-63 teach decoding an the most error free SID frame thus some frames to decode are invalid).

At the time the invention was made it would have been obvious for one skilled in the art to modify the combined functions/devices of lyengar and Virtanen using the invalid frame determining means of Bruhn for the purpose of having the most error free decoded frame.

Referring to claim 29, depending on claim 24, see the rejection of claim 8.

Claims 19, 21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over lyengar et al. (U.S. 6049765) in view of Virtanen (U.S. 6035179) further in view of Yoshikawa (U.S. 5241535).

Referring to claim 19, lyengar teaches, a method comprising, counting an untransmitted frame to determine a count of silence frames (Column 3 lines 1-22);

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determining a silence frame that includes the count of silence frames (Column 3 lines 1-22), wherein the silence description frame has a size equivalent to the size of an active frame;

and storing the silence description frame (Column 3 lines 1-22 and Figure 4).

lyengar fails to teach a variable-size packet transmitter;

wherein the silence description frame has a size equivalent to the size of an active frame.

In an analogous art Virtanen teaches wherein the silence description frame has a size equivalent to the size of an active frame (Column 2 lines 16-29).

At the time the invention was made it would have been obvious for one skilled in the art to modify the silence frame counting function/device of lyengar using the same frame size function/device of Virtanen for the purpose of making the system processing simpler since no special frame sizes have to accommodated for.

lyengar and Virtanen fail to teach a variable-size packet transmitter.

In an analogous art Yoshikawa teaches a variable-size packet transmitter (Column 8 lines 66-67 and Column 9 lines 1-5).

At the time the invention was made it would have been obvious for one skilled in the art to modify the combined systems of lyengar and Virtanen using the variable packet size transmitter system of Yoshikawa for the purpose of effective encoding processing useful for stabilizing the quality of the decoded signal on a receiver side (Column 4 lines 49-53 and lines 60-67 and Column 5 lines 1-9, Yoshikawa).

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Referring to claim 21, depending on claim 19, Virtanen teaches a microprocessor to encode active audio in a fixed-size packet (Column 2 lines 16-29 and Figure 1 teaches the components that process/encode the audio data).

Regarding claim 23, depending on claim 19, lyengar teaches wherein said silence description frame filer comprises microprocessor to store a silence description frame (Column 3 lines 1-22, Figure 4 and Column 1 lines 62-67).

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over lyengar et al. (U.S. 6049765) in view of Virtanen (U.S. 6035179) further in view of Yoshikawa (U.S. 5241535) further in view of Walker et al. (US 5890109).

Regarding claim 20, depending on claim 19, lyengar, Virtanen, and Yoshikawa fail to teach a decoder coupled to an output device.

In an analogous art Walker teaches a decoder coupled to an output device (Figure 3 elements 116, 112, and 110).

At the time the invention was made it would have been obvious for one skilled in the art to modify the combined systems of lyengar, Virtanen, and Yoshikawa using the decoder system of Walker for the purpose of being able to play back the audio stream (Column 3 lines 20-26, Walker).

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iyengar et al. (U.S. 6049765) in view of Virtanen (U.S. 6035179) further in view of Yoshikawa (U.S. 5241535) further in view of Auyeung et al. (U.S. 5486863) further in view of an Examiner's Official Notice.

Regarding claim 22, depending on claim 19, Yoshikawa teaches a variable size packet transmitter (Column 8 lines 66-67 and Column 9 lines 1-20).

Iyengar, Virtanen, and Yoshikawa fail to teach a packet transmitter comprises a microprocessor to encode a video difference in a fixed-size packet.

In an analogous art Auyeung teaches a transmitter comprises a microprocessor to encode a video difference (Column 2 lines 55-60, Column 3 lines 41-44, and Column 3 lines 58-60).

At the time the invention was made it would have been obvious for one skilled in the art to modify the combined systems of Iyengar, Virtanen, and Yoshikawa using the video difference system of Auyeung for the purpose of reducing the bandwidth required to transmit the video signal.

lyengar, Virtanen, and Yoshikawa, and Auyeung fail to teach the system of claim

19, wherein said packet transmitter encodes video in a fixed-size packet.

The examiner takes official notice that is well known for packets to be a fixed size of 188 bytes because of transport streams used to carry the packets therefore it would have been obvious for one skilled in the art to modify the combined systems of lyengar,

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Virtanen, and Yoshikawa, and Auyeung for the purpose of using fixed size packets for motion or still image to conform to motion transport protocols.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter C. Wilder whose telephone number is 571-272-2826. The examiner can normally be reached on 8 AM - 4PM Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on (571)272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PW

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